



U.S. Department
of Transportation

Research and
Special Programs
Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0036/S, REVISION 6

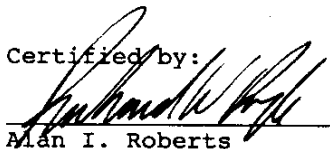
400 Seventh Street, S.W.
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - NRD Model A-001
2. Source Description - The Special Form material is a laminated metallic foil of silver, gold, and americium dioxide, as shown on NRD, Inc. drawing number 92A071 (attached). The foil may be single or double. The single foil consists of successive layers of plating, gold, Am-241 and gold, gold, silver, and flash plating for identification. In the double foil the flash plating is replaced by gold, Am-241 and gold, gold, and plating. The plating is yellow gold, white gold, or palladium. During transport the material may be in the form of free foils or secured in a variety of holders or mounts.
3. Radioactive Contents - Americium-241 as an oxide with the activity per foil ranging from less than 0.037 MBq (1 uCi) to 2.035 GBq (55 mCi). Activity per unit area does not exceed 0.086 MBq per square millimeter (1500 uCi per square inch).
4. Expiration Date - This certificate expires August 31, 2002.

This certificate is issued in accordance with paragraph 803 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated June 10, 1997 submitted by NRD Inc., Grand Island, NY, and in consideration of other information on file in this Office.

Certified by:


Alan I. Roberts

107 Associate Administrator for Hazardous Materials Safety

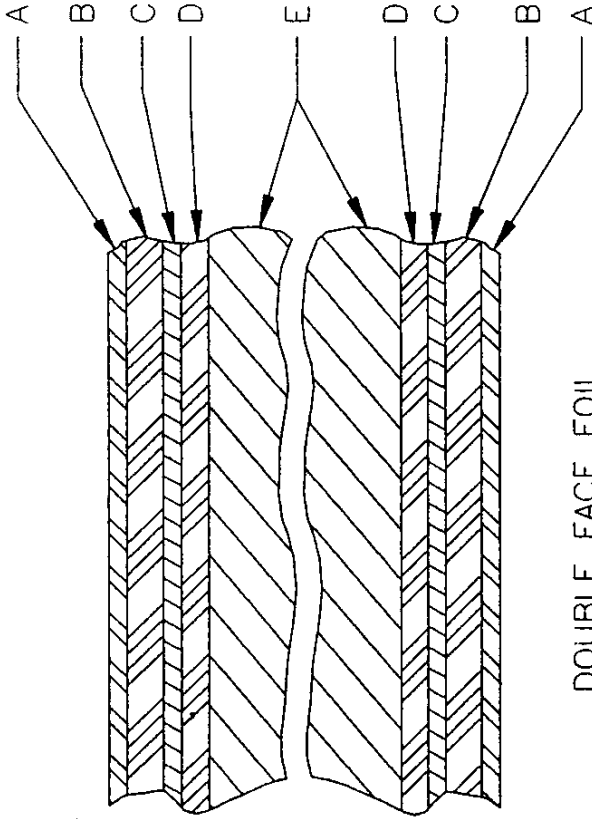
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(DATE)

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1973 Revised Edition, as amended," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

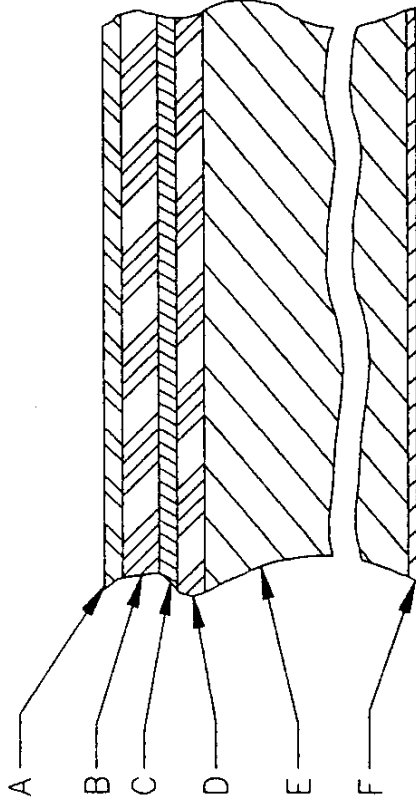
2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

DATE	SYM	REVISION RECORD	AUTH.	DR.	CK.



DOUBLE FACE FOIL
CROSS SECTION

- A. * PLATING 0.00002
 B. GOLD 0.00004
 C. AMERICIUM 241 & GOLD 0.00002
 D. GOLD 0.00003
 E. SILVER 0.004 TO 0.009
 F. FLASH PLATING FOR IDENTIFICATION



SINGLE FACE FOIL
CROSS SECTION

NOTES:

- * PLATING CAN BE YELLOW GOLD, WHITE GOLD, OR PALLADIUM.
- ACTIVITY RANGE:
 - FROM LESS THAN 1 MICROCURIE UP TO 55 MILLICURIES PER FOIL.
 - NOT TO EXCEED 2.33 MICROCURIES PER SQUARE MILLIMETER. (OR 1500 MICROCURIES PER SQUARE INCH)
- DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

NRD INC.

A SUBSIDIARY OF MARK IV INDUSTRIES, INC.

2937 ALT BOULEVARD GRAND ISLAND, NEW YORK 14072

TOLERANCE (EXCEPT AS NOTED)		TITLE	
DECIMAL		A-001 FOIL	
+		GENERAL COMPOSITION	
FRACTIONAL		MATERIAL & FINISH	SCALE
±		SEE NOTES	NONE
ANGULAR		DATE	DWG. NUMBER
		10JL92	92A071
		REVISION	